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Serial No. 10/564,782
August 25, 2008

AMENDMENTS TO THE CLAIMS:

The following listing of claims supersedes all prior versions and listings of claims in this application:

LISTING OF CLAIMS:

1. (Currently Amended) A device for testing a data carrying service operating over a telecommunications line, the device comprising:

a plurality of test circuits, each test circuit arranged to determine and test one or more characteristics of a data carrying service and providing ~~[[means]]~~ a termination emulator to emulate a termination of said telecommunications line;

~~processing means~~ a processor operable to control the operation of each of said plurality of test circuits; and

~~connection means~~ at least one connector arranged to connect said telecommunications line to one or more of said plurality of test circuits,

wherein said test circuits are arranged to enable said data carrying service to remain connected to said ~~connection means~~ at least one connector during all of the testing operations provided by said one or more of the test circuits;

said at least one connector connects said data carrying service telecommunications line to one test circuit at a time;

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said processor is operable to control the operation of a plurality of said test circuits in a predetermined sequence; and

said data carrying service remains connected to each said connector as each of said plurality of test circuits is operable in said predetermined sequence.

2. (Cancelled)

3. (Currently Amended) A device ~~as claimed in claim 1, further comprising~~
~~means for said connection means to provide~~ for testing a data carrying service operating
over a telecommunications line, the device comprising:

a plurality of test circuits, each test circuit arranged to determine and test one or more characteristics of a data carrying service and providing a termination emulator to emulate a termination of said telecommunications line;

a processor operable to control the operation of each of said plurality of test circuits;

one or more connectors arranged to connect said telecommunications line to one or more of said plurality of test circuits; and

said at least one connector providing input to a plurality of test circuits at a time,
[[and]] wherein said test circuits are arranged to enable said data carrying service to

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remain connected to said at least one connector during all of the testing operations
provided by said at least one of the test circuit;

said ~~processing means~~ processor is operable to control the parallel operation of
said plurality of ~~[[said]]~~ test circuits; and

said data carrying service remains connected to each said ~~connection means~~
connector as each of said plurality of test circuits is operable.

4. (Currently Amended) A device according to claim 1, wherein

said ~~processing means~~ processor controls the operation of said test circuits to
determine the identity of the data carrying service.

5. (Currently Amended) A device according to claim 4, further comprising a
display means arranged to provide an indication of the identity of the data carrying
service determined by said ~~processing means~~ processor and one or more of said test
circuits to an operator of the device.

6. (Currently Amended) A device according to claim 1, wherein each said
~~connection means~~ connector is arranged to both send and receive data over said
telecommunications line.

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7. (Currently Amended) A device according to claim 1, wherein each said ~~connection means~~ connector is connected to said ~~[[means]]~~ emulator to emulate a termination point of said telecommunications line.

8. (Currently Amended) A device according to claim 7, wherein said ~~connection means~~ at least one connector comprises a pair of ports, each port arranged to connect to said telecommunications line to a chip-set providing means to emulate a termination point of said telecommunications line, the test circuit being arranged to enable the device in use to act as a passive link within the data carrying service.

9. (Currently Amended) A device according to claim 7, wherein said ~~connection means~~ at least one connector comprises a pair of ports, each port arranged to connect to said telecommunications line to a chip-set providing means to emulate a termination point of said telecommunications line, the test circuit being arranged to perform throughput testing of said data carrying service over said telecommunications line.

10. (Currently Amended) A device according to claim 1, wherein said ~~means to emulate a termination of said telecommunications line~~ emulator comprises a modem.

11. (Previously Presented) A device according to claim 1, wherein said termination of said telecommunications line comprises termination at a transceiver unit central office.

12. (Previously Presented) A device according to claim 1, wherein said termination of said telecommunications line comprises termination at a transceiver unit remote terminal.

13-21. (Cancelled)

22. (Previously Presented) A device for testing a data carrying service operating over a telecommunications line, the device comprising:

a port for connection to the line so as to send and receive data;

a line attenuation emulator for modifying the data in a manner to emulate an extended length of line;

a processing unit; and

test circuit means for testing in co-operation with the processing unit a data carrying service using the data sent and received via said input port.

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23. (Previously Presented) A device according to claim 22, in which the attenuation emulator is provided by an interface unit comprising attenuation circuitry, the interface unit connected between the port and the test circuit means.

24-27. (Cancelled)

28. (New) A device according to claim 3, wherein
said processor controls the operation of said test circuits to determine the identity of the data carrying service.

29. (New) A device according to claim 28, further comprising a display arranged to provide an indication of the identity of the data carrying service determined by processor and one or more of said test circuits to an operator of the device.

30. (New) A device according to claim 3, wherein said one or more connectors are arranged to both send and receive data over said telecommunications line.

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31. (New) A device according to claim 3, wherein said one or more connectors are connected to said means to emulate a termination point of said telecommunications line.

32. (New) A device according to claim 31, wherein said connectors comprise a pair of ports, each port arranged to connect to said telecommunications line to a chip-set emulating a termination point of said telecommunications line, the test circuit being arranged to enable the device in use to act as a passive link within the data carrying service.

33. (New) A device according to claim 31, wherein said connectors comprise a pair of ports, each port arranged to connect to said telecommunications line to a chip-set emulating a termination point of said telecommunications line, the test circuit being arranged to perform throughput testing of said data carrying service over said telecommunications line.

34. (New) A device according to claim 3, wherein said termination emulator emulating a termination of said telecommunications line comprises a modem.

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35. (New) A device according to claim 3, wherein said termination of said telecommunications line comprises termination at a transceiver unit central office.

36. (New) A device according to claim 3, wherein said termination of said telecommunications line comprises termination at a transceiver unit remote terminal.

37. (New) A method of testing a data carrying service operating over a telecommunications line, the method comprising:

testing a plurality of test circuits, each test circuit arranged to determine and test at least one characteristic of a data carrying service and providing a termination emulator to emulate a termination of said telecommunications line;

controlling the operation of each of said plurality of test circuits;

connecting said telecommunications line to at least one of said plurality of test circuits;

arranging said test circuits to enable said data carrying service to remain connected during all of the testing operations provided by said at least one of the test circuits;

wherein the connecting step comprises connecting said data carrying service telecommunications line to one test circuit at a time;

the controlling step comprises using a processor to control the operation of a plurality of said test circuits in a predetermined sequence; and

said data carrying service remains connected as each of said plurality of test circuits is operable in said predetermined sequence.

38. (New) A method of testing a data carrying service operating over a telecommunications line, the method comprising:

testing a plurality of test circuits, each test circuit arranged to determine and test at least one characteristic of a data carrying service and providing a termination emulator to emulate a termination of said telecommunications line;

controlling the operation of each of said plurality of test circuits;

connecting said telecommunications line to one or more of said plurality of test circuits; and

providing input to a plurality of test circuits at a time;

wherein said test circuits are arranged to enable said data carrying service to remain connected during all of the testing operations provided by one or more of the test circuits;

said processor is operable to control the parallel operation of said plurality of said test circuits; and

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said data carrying service remains connected as each of said plurality of test circuits is operable.